

~~the same species; and (iii) capability of being crossed with a commercial plant of the same species;~~

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- ~~(b) treating said miniature plants with a mutation-inducing agent to produce a mutant miniature plant population; and~~
 - ~~(c) selecting a mutant miniature plant having the desired trait from said mutant miniature plant population.~~

2. (Amended) The method of claim 1, wherein said population of miniature plants is a population of miniature tomato plants.

14. (Amended) A mutant miniature tomato plant population wherein each miniature tomato plant of said miniature tomato plant population carries in a genome of its cells a distinct mutation induced by an agent selected from the group consisting of a chemical mutagen, or irradiation.

37. (Amended) A method of producing a commercial plant with a desired trait, the method comprising:

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- ~~(a) utilizing a population of miniature plants having the following characteristics: (i) uniformly reduced size in comparison to a commercial plant of the same species; (ii) maturation to produce viable seeds or tubers at a plant density of at least ten-fold higher than standard growth conditions used for a commercial plant of the same species; and (iii) capability of being crossed with a commercial plant of the same species;~~
 - ~~(b) treating said miniature plants with a mutation-inducing agent to produce a mutant miniature plant population;~~
 - ~~(c) selecting a mutant miniature plant having the desired trait from said mutant miniature plant population;~~
 - ~~(d) crossing said mutant miniature plant selected in step (c) with a commercial plant of the same species; and~~